

Abstract

An optical device is provided comprising a plurality of prisms, two dichroic surfaces having different wavelength characteristics from each other, and a prism surface that satisfies a total reflection requirement for a predetermined light component. Also provided is a
5 projection display apparatus comprising a light source, light valves for respectively
modulating components of the light from the light source, an optical device for chromatically
synthesizing the modulated light components, and a projection section for projecting the
modulated light. Optionally, the optical device may also be used in the projection display
apparatus for separating the light from the light source into the multiple light components.
Further provided is an image capturing apparatus comprising a taking lens unit for receiving
light, an optical device for separating the light received by the taking lens unit into multiple
light components, and imaging devices for respectively converting the multiple light
components into image data.

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